NC/QC/YD-W-1/2018-19/VL-PCC1 Date: 13-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.50	0 -20	30- 70
10mm	27.90	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.50	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	87.30	60-95	75-100	85-100	
01.18	65.40	30-70	55-90	75-100	
600.mic	54.80	15-34	35-59	60-79	
300.mic	23.65	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

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EMAIL:newzen576@gmail.com

NC/QC/YD-W-1/2018-19/VL-C2 Date: 15-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	155 min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.89 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.12mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.78 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YD-W-1/2018-19/VL-PCC2 Date: 15-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	55.90	0 -20	30- 70
10mm	26.60	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.30	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.10	60-95	75-100	85-100	
01.18	76.50	30-70	55-90	75-100	
600.mic	54.30	15-34	35-59	60-79	
300.mic	25.90	5-20	8-30	12-40	
150.mic	6.10	0-10	0-10	0-10	

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NC/QC/YD-W-1/2018-19/VL-CA1 Date: 18-02-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.50	85-100	90 - 100
10 mm	38.20	0 - 20	25 - 55
4.75 mm	7.90	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.67%	Not to exceed 25 %
2.	Crushing value	25.89%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YD-W-1/2018-19/VL-S1 Date: 18-02-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.**

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.399**	0.363	**0.613**	0.567
03	Proof stress/Yield stress, fy , **N/mm²**	**548.0**	500.0	**10**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.60**	16.00	**21.30**	16.00
06	Ultimate Tensile Strength **N/mm²**	**638.0**	565.0	**632.0**	565.0

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NC/QC/YD-W-1/2018-19/VL-CB1 Date: 27-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-19	27-02-19	07	22500	370	16.44	**16.22**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

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NC/QC/YD-W-1/2018-19/VL-CB3 Date: 01-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-02-19	01-03-19	07	22500	365	16.22	**16.30**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/YD-W-1/2018-19/VL-CB4 Date: 05-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-02-19	05-03-19	08	22500	385	17.11	16.59
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	365	16.22	

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NC/QC/YD-W-1/2018-19/VL-CB5 Date: 05-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	26-02-19	05-03-19	07	22500	370	16.44	
	002	"	"	"	"	380	16.89	**16.52**
	003	"	"	"	"	365	16.22	

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NC/QC/YD-W-1/2018-19/VL-CB6 Date: 06-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-02-19	06-03-19	07	22500	360	16.00	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NC/QC/YD-W-1/2018-19/VL-CB2A Date: 21-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-02-19	21-03-19	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

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NC/QC/YD-W-1/2018-19/VL-CB3A Date: 22-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-02-19	22-03-19	28	22500	495	22.00	**22.30**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	500	22.22	

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NC/QC/YD-W-1/2018-19/VL-CB4A Date: 25-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	25-02-19	25-03-19	28	22500	505	22.44	22.74
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	520	23.11	

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NC/QC/YD-W-1/2018-19/VL-CB5A **Date: 26-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	505	22.44	**22.52**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	515	22.89	

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NC/QC/YD-W-1/2018-19/VL-CB6A

Date: 27-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-02-19	27-03-19	28	22500	515	22.89	22.59
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

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EMAIL:newzen576@gmail.com

NC/QC/YD-W-1/2018-19/VL-K1 Date: 11-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.15	22.86	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.34	22.80		
3	003	3.33	22.65		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.65	4.54
2	002	4.53	
3	003	4.46	

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NC/QC/YD-W-1/2018-19/VL-K3 Date: 16-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.80	22.96	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.37	23.20		
3	003	3.34	22.90		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.68	4.68
2	002	4.82	
3	003	4.55	

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NC/QC/YD-W-1/2018-19/VL-C4 Date: 18-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	159min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.05 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	29.13 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YD-W-1/2018-19/VL-PCC3 Date: 18-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.45	0 -20	30- 70
10mm	27.05	0 -5	10- 35
4.75mm	4.30	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.50	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.50	60-95	75-100	85-100	
01.18	64.90	30-70	55-90	75-100	
600.mic	53.70	15-34	35-59	60-79	
300.mic	23.55	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

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NC/QC/YD-W-1/2018-19/VL-C5 Date: 21-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ZUARI
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.95%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.13mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.78 N/Sq mm	Shall not be less than 27 N/Sqmm

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Page No. 1/1,

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NC/QC/YD-W-1/2018-19/VL-CB7 Date: 07-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	525	23.33	23.56
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	535	23.78	

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For Newzen Consultants Bangalore

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NC/QC/YD-W-1/2018-19/VL-CB8 Date: 07-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	07-03-19	07	22500	520	23.11	23.63
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	545	24.22	

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NC/QC/YD-W-1/2018-19/VL-CB10 Date: 08-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-03-19	08-03-19	07	22500	520	23.11	23.19
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	515	22.89	

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NC/QC/YD-W-1/2018-19/VL-CB7A Date: 28-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	28-03-19	28	22500	720	32.00	**32.52**
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	740	32.89	

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NC/QC/YD-W-1/2018-19/VL-CB8A Date: 28-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-02-19	28-03-19	28	22500	730	32.44	33.19
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	760	33.78	

AE-1

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NC/QC/YD-W-1/2018-19/VL-CB9A Date: 29-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-03-19	29-03-19	28	22500	730	32.44	32.67
	002	"	"	"	"	755	33.56	
	003	"	"	"	"	720	32.00	

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NC/QC/YD-W-1/2018-19/VL-CB10A Date: 29-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to main road, cross roads and providing kerb stones at Vinayaka Nagara 1st, 5th 3rd cross roads in Kempegowda ward no - 01 and Improvements to roads and drains at Lake view layout and surrounding areas in Kempegowda ward no - 01 (Package-03).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Rajanna. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-03-19	29-03-19	28	22500	750	33.33	33.41
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	760	33.78	

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